





A 68-year-old man presents with fatigue and abdominal bloating. On cardiac exam, the jugular venous pressure revealed "CV" waves to angle of the jaw. An RV lift is present. There is a grade 2/6 pansystolic murmur at the lower sternal border that gets louder with inspiration. There is a soft systolic ejection murmur and diastolic murmur at the second left interspace. In addition, there is an enlarged and pulsatile liver. Images obtained from his TTE are shown.

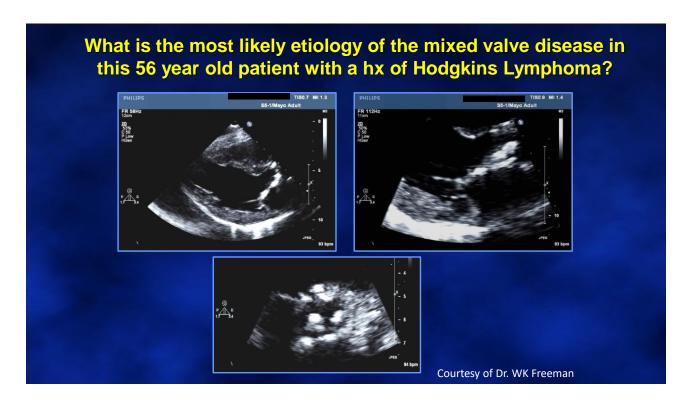
Which of the following is the most likely diagnosis?

- A. Rheumatic heart disease
- B. Carcinoid heart disease
- C. Ebstein's anomaly
- D. Endocarditis









What is the most likely etiology of the mixed valve disease in this 56 year old patient with a hx of Hodgkins Lymphoma?

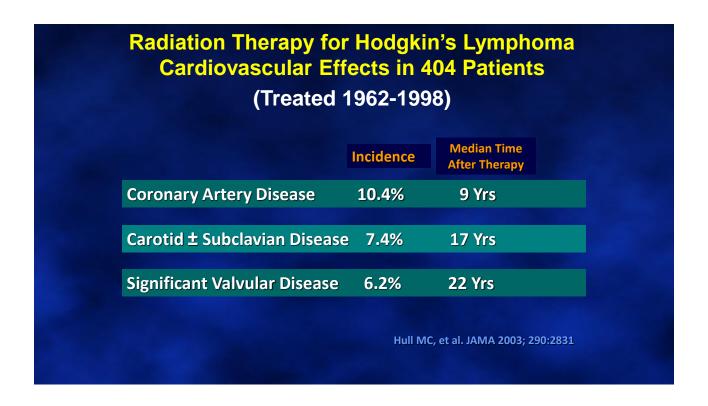
- A. Chemotherapy induced valve disease
- B. Radiation induce valve disease
- C. Ergotamine induced valve disease
- D. Degenerative calcific valve disease

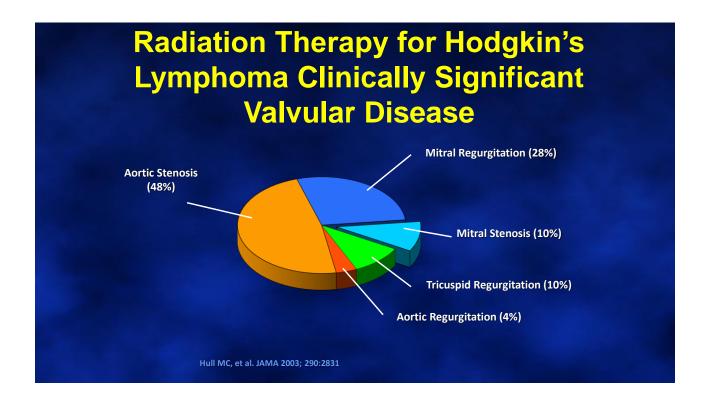




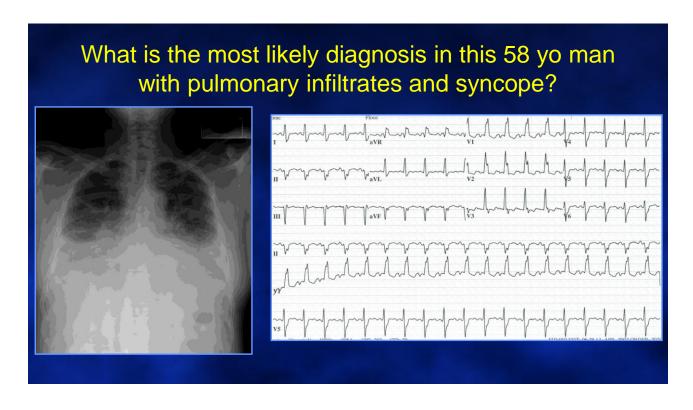
Radiation Induced Cardiac Disease

- Pancarditis: pericardial, myocardial, endocardial/valvular (fibroelastosis)
- Acute pericarditis during therapy
- Delayed pericarditis: constriction, pericardial effusion
- Cardiomyopathy: diastolic/systolic dysfunction
- CAD: intimal proliferation, endothelial dysfunction
- Conduction system defects









What is the most likely diagnosis in this 58 yo man with pulmonary infiltrates and syncope? | PHILIPS | TIBB 7 M 1 4 | P





- A. Ischemic Cardiomyopathy
- B. Arrythmogenic RV Cardiomyopathy (ARVC)
- C. Cardiac Sarcoidosis
- D. Systemic Lupus Erythematosus

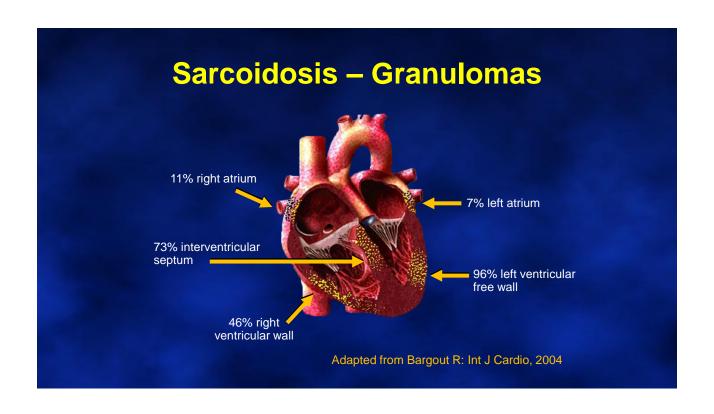


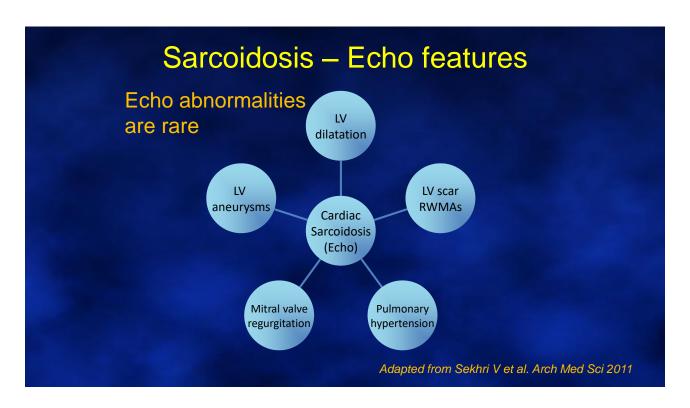
Cardiac Sarcoidosis

- Noncaseating granuloma
- Regional wall motion abnormalities in unusual distribution
- Heart block
- Sudden death

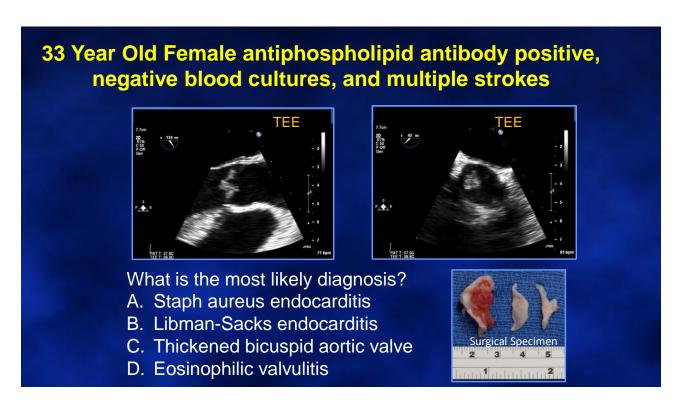


Courtesy William Edwards, MD









Systemic Lupus Erythematosus - Cardiac Involvement

- Pericarditis (fluid ANA+)
- Lupus anticoagulant
- Anticardiolipin antibodies
- Myocarditis
- Coronary arteritis
- Libman-Sacks (Marantic)
 vegetations



Courtesy of W Edwards MD



What is the most likely diagnosis in this 35 year old female with a history of migraine headaches and no history of rheumatic fever?

- A.Ergot associated valvular disease
- B.Aortic and mitral valve endocarditis
- C.Parachute mitral with coexistent aortic regurgitation
- D.Left sided carcinoid valve disease



Drug-Induced Valvular Disease Echocardiographic Findings

- Thickening and retraction of valve leaflets or cusps
 - No commissural fusion.
 - Reduced mobility, restricted closure coaptation
- Thickened, fused, shortened MV/TV chordal support apparatus
- Variable regurgitation, rarely significant stenosis

Mimics Rheumatic Valve Disease

Drug Induced Valve Disease

- 5-HT_{2B} Receptor
 - Pergolide
 - Cabergoline
 - -MDMA (Ecstasy)
 - Fenfluramine
 - Methylsergide/Methylergonovine

Bhattacharyya S, et al. Lancet 2009; 374:577

	MDMA Users (n=33)	Controls (n=29)
Duration of use	6.1 ± 3.4 yrs	0
Age (yrs)	24.3 ± 3.1	25.6 ± 3.1
MR ≥ Grade 2/4	4 (14%)	0
Restricted MV motion	7 (24%)	0
TR ≥ Grade 2/4	13 (45%)	0
Restricted TV motion	7 (24%)	0
AR ≥ Grade 1/4	4 (14%)	0

